

1044b UIC - EAST POPLAR OIL FIELD
ENFORCEMENT CASE SDWA 1431
Folder ID: 13619 1986 Privileged

Release in full

Region 8



13619

NIL-2B GUIDELINE AND CHECKLIST

Operator: Grace Petroleum Corporation Well Name/No.: Huber #1, #2, & #4

Lease: Huber Madison County: Roosevelt State: Montana

Well Location: Various Quarters Section: 10 Township: 28N Range: 51E

Producing Formation: Charles Interval: 5600-5700'

B W P D 600 PPM 79,574 TDS 130,465 pH 5.8

Water Analysis Available: Yes

Disposed by: Truck Strauser's Pipeline: _____

Disposed in: Disposal Well: Goings #1-10 Injection Well: _____

Well Operator: Grace Petroleum Corporation Well Name/No.: Goings #1-10

Well Location: SE SW Section: 11 Township: 29N Range: 50E
BLM #14-20-256-22

Lease No.: EPA #MTS21PW-0008 Date Well Approved: Fed. _____ State _____

Disposal Formation: Dakota Interval: 3630-3710' & 3804-3830'

Disposal Formation: PPM 134,290 TDS 219,594 pH 5.9

Disposed in: Lined Pit: _____ Unlined Pit: _____

Pit Size: _____ Pit Lining: _____

Leak Detection Type: _____

Percolation Rate: _____

Evaporation Rate (Compensated for Rainfall): _____

NIL-2B APPLICATION

Approved: _____

Disapproved: _____

By: _____

Date: _____

Comments:

Huber #1 4 BOPD, 250 BWPD
Huber #2 4 BOPD, 250 BWPD
Huber #3 T&A'd
Huber #4 17 BOPD, 100 BWPD



4
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
1860 LINCOLN STREET
DENVER, COLORADO 80295

SEP 13 1984

Ref: 8WM-DW

James Johnson
143 Union Boulevard, Suite 760
Lakewood, Colorado 80228

Re: UIC Permit Applications
EPU 110-XD MTS21PE-0007
Goings Gov't #1 MTS21PW-0008
Buck Elk #2 MTS21PE-0009

Dear Mr. Johnson:

Thank you for your response to our letter of August 20. We are pleased to inform you that the UIC permit applications for the three salt water disposal wells referenced above are now complete. We are currently in the process of writing draft permits for these wells. Once the draft permits have been prepared, EPA will issue a public notice requesting public comment on the draft permits.

Laura Clemmens is the permit writer assigned to your permits. Inquiries should be addressed to Ms. Clemmens at the Denver address or at (303) 844-2731.

Sincerely yours,

Max H. Dodson, Director
Water Management Division

cc: Bob Coffia

SAM 218



Telecopied Bob Coffin 8/20/84

RECEIVED

JUN 27 1984

REF: 8WM-DW

JUN 25 1984

SPC ROCKY MOUNTAIN
REGION OPERATIONS

Mr. James Johnson
Grace Petroleum Corporation
143 Union Boulevard, Suite 760
Lakewood, Colorado 80228

Dear Mr. Johnson:

You are hereby requested to submit permit applications for the following wells by July 30, 1984:

Field

Well Name

East Poplar

✓ EPU 110XD

~~Buck Elk No. 2~~

~~Huber No. 1~~

~~Huber No. 2~~

2-11-84
→ I
→ EPU 110 XD

NW Poplar

✓ Goings Government

EPA is requiring permit applications for these wells for the following reasons: 1) The agency has determined that salt water disposal (SWD) wells pose a significant threat to Underground Sources of Drinking Water (USDW's) in this area and is therefore permitting them as soon as possible, and; 2) EPA has received assertions from the Bureau of Indian Affairs (BIA) of ground water contamination as a possible result of salt water disposal activities on the Fort Peck Indian Reservation. Since the East Poplar and Northwest Poplar fields are the area of greatest concern to the tribe and the BIA, we are requesting that permit applications for wells from these fields be submitted first.

Please complete one of the enclosed application forms for each well listed by July 30, 1984. Be sure that all the applications are complete and that all required attachments are included. Submit the completed applications to:

Chief, Drinking Water Branch
U.S. Environmental Protection Agency (8WM-DW)
1860 Lincoln Street
Denver, Colorado 80295

SAM 203

The SWD wells listed above may continue to operate under current authorization by rule until:

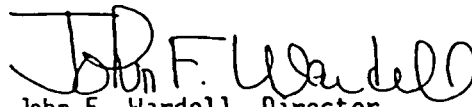
The effective date of a permit (activities will then be authorized by permit);

The denial of a permit (the well will no longer be authorized to inject); or

The owner or operator fails to submit the permit application within the time period specified in this notice (at which time the authorization to inject will be revoked).

I encourage you to contact either Richard Long in the EPA Denver Regional Office (Phone: (303) 844-3914) or William Engle in the EPA Montana Operations Office (Phone: (406) 449-5414) as soon as possible if you have any questions.

Sincerely yours,


John F. Wardell, Director,
Montana Office

Enclosures: Permit Application Forms

SAM 204

Suite 760
143 Union Blvd.
Lakewood, Colorado 80228
Phone (303) 980-9130

RETURN RECEIPT REQUESTED
CERTIFIED MAIL No. 111302



Grace Petroleum Corporation
Subsidiary of W. R. Grace & Co.

Suite 760
143 Union Blvd.
Lakewood, Colorado 80228
Phone (303) 980-9130

May 15, 1986

Debra Ehlert
Environmental Protection Agency
Ground Water Section, 8WM-DW
999 18th Street, Suite 1300
Denver, Colorado 80202

Re: Additional Injection in Goings SWD
N.W. Poplar Field
Roosevelt County, Montana

Dear Ms. Ehlert:

Attached is an approved NTL-2B from the Montana BLM to transfer produced water from the Huber lease (E. Poplar) to the Goings Gov't SWD (N.W. Poplar). Included with the NTL-2B is a water analysis from the Huber lease and analysis of water being disposed in the Goings SWD. As you discussed with Bill Baswell May 15, 1986, the EPA permit conditions are to not exceed 3000 BWPD or 875 psi surface pressure. The Goings Gov't SWD is currently disposing of approximately 1550 BWPD at 300 psi maximum tubing pressure. As shown on the NTL-2B, combined Huber water would equal 600 BWPD. This additional water would bring the total to \pm 2200 BWPD, well below the permitted condition. I hope this is all the information required and it is our plans to start hauling water from the Huber lease as you and Bill Baswell discussed; based on the permit conditions. Please notify this office of your approval of the above proposal.

Thank you for your consideration in this matter and if any further information is required or you have any questions, please feel free to contact this office at the above letterhead address.

Very truly yours,


Kenneth H. Dowell
District Manager

cc: Bill Baswell

SAM 270

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUMMIT IN THE PUBLIC
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Use not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Salt Water Disposal		2. Lease Identification and Record No. 14-20-256-22 3706	
3. NAME OF OPERATOR Grace Petroleum Corporation		4. IF LEASE, ALLOTTEE OR TRUST NAME Allotted Ft. Peck	
5. ADDRESS OF OPERATOR 143 Union Blvd. - Ste 760, Lakewood, CO 80228		6. NAME OF LEASE OWNER Goings Gov't	
7. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FSL & 1980' FWL, Section 11 SE SW Section 11		8. WELL NO. SWD #1	
9. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT NW Poplar/Dakota	
11. ELEVATIONS (Show whether of, at, or, etc.) 2248' GL, 2259' KB		11. SEC. T. R. M. OR PLK. AND SECTION OR QUAD Sec. 11, T29N-R50E	
12. COUNTY OR PARISH Roosevelt		13. STATE Montana	

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) NTL-2B

PLUG OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE REMOVAL OR COMPLETION OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

"See attached NTL-2B Form"

RECEIVED

MAY 2 1986

GPC ROCKY MOUNTAIN
REGION OPERATIONS

APR 1986
Bureau of Land
Management
Missoula City
Montana

18. I hereby certify that the foregoing is true and correct

SIGNED

William P. Raswell III

TITLE: Operations Engineer

DATE 4/14/86

(This space for Federal or State agency use)

APPROVED BY

ADM-MINERALS

TITLE: ADM-MINERALS

DATE APR 22 1986

cc: Ken Dowell, WI Owners

*See Instructions on Reverse Side

SAM 271

RECEIVED

AUG 27 1984



REPORT OF
WATER ANALYSIS

GPS ROCKY MOUNTAIN
REGION OPERATIONS

Company Grace Petroleum
Poplar, Montana

Date August 24, 1984

Analysis No.

Sampling Date August 24, 1984

Date Sample Rec'd August 24, 1984

Sample Marked *Comingled
Produced water*

DISSOLVED SOLIDS

Cations	mg/l	meq/l
Sodium, Na (Calc.)	49,105	2,135
Calcium, Ca	1,640	82
Magnesium, Mg	146	12
Barium, Ba		

RESULTS AS COMPOUNDS

	mg/l
NaCl	
CaCO ₃	4,100
CaCO ₃	600
BaSO ₄	

Cations Total 50,891 2,229

Anions

Chloride, Cl	77,696	2,191
Sulfate, SO ₄	1,622	34
Carbonate, CO ₃		
Bicarbonate, HCO ₃	256	4

NaCl	128,000
Na ₂ SO ₄	2,400
CaCO ₃	
MgCO ₃	210

Anions Total 79,574 2,229

Total Dissolved Solids (Calc.) 130,465

Total Iron, Fe 70

Acidity to Phenolphthalein, CO₂ 70

Fe	1.0
CaCO ₃	160

OTHER PROPERTIES

pH	5.8
Specific Gravity	1.091
Turbidity (JTU)	--
Sulfide, as H ₂ S	(present)

CaCO₃ STABILITY INDEX

@ 70° F.
@ 120° F.
@ 160° F.
Method of Stiff & Davis

Remarks: cc: D. Kasovski
D. Brown

/mg

SAM 273

NALCO CHEMICAL COMPANY
VISCO CHEMICALS

P. O. BOX 87 • SUGAR LAND, TEXAS 77478

RECEIVED

AUG 27 1984



REPORT OF ROCKY MOUNTAIN WATER ANALYSIS

Company Grace Petroleum
Poplar, Montana

Date August 24, 1984
Analysis No.
Sampling Date August 24, 1984
Date Sample Rec'd August 24, 1984

Sample Marked Coings SWD

DISSOLVED SOLIDS

Cations	mg/l	meq/l
Sodium, Na (Calc.)	78,154	3,398
Calcium, Ca	6,640	332
Magnesium, Mg	510	42
Barium, Ba		

Cations Total 85,304 3,772

Anions

Chloride, Cl	132,326	3,732
Sulfate, SO ₄	1,622	34
Carbonate, CO ₃		
Bicarbonate, HCO ₃	342	6

Anions Total 134,290 3,772

Total Dissolved Solids (Calc.) 219,594

Total Iron, Fe 194

Addity to Phenolphthalein, CO₂ 194

RESULTS AS COMPOUNDS

	mg/l
as NaCl	
as CaCO ₃	16,600
as CaCO ₃	2,100
as BaSO ₄	

as NaCl	218,000
as Na ₂ SO ₄	2,600
as CaCO ₃	
as CaCO ₃	280

as Fe	0.2
as CaCO ₃	440

OTHER PROPERTIES

pH 5.9
Specific Gravity 1.145
Turbidity (JTU) ---
Sulfide, as H₂S (present)

CaCO₃ STABILITY INDEX

@ 70° F.
@ 120° F.
@ 160° F.
Method of Stiff & Davis

Remarks: cc: D. Kasowski
D. Brown

/mg

SAM 274

NALCO CHEMICAL COMPANY
VISCO CHEMICALS

P.O. BOX 87 • SUGAR LAND, TEXAS 77478